*# Dependencies and Setup*

*#import matplotlib.pyplot as plt*

**import** **pandas** **as** **pd**

*#import numpy as np*

**import** **requests**

*#import time*

*#from scipy.stats import linregress*

**import** **us**

*# Import API key*

*#from api\_keys import weather\_api\_key*

*# Incorporated citipy to determine city based on latitude and longitude*

*#from citipy import citipy*

*# pprint - useful for browsing api results*

**from** **pprint** **import** pprint

resource\_path = "Resources"

cases\_by\_state\_path = f"**{resource\_path}**/CasesByStateAbbr.csv"

income\_pop\_path = f"**{resource\_path}**/IncomePopByState.csv"

cases\_df = pd.read\_csv(cases\_by\_state\_path)

cases\_df.head()

cases\_df.rename(columns={'State' : 'State Name', 'State Abbr' : 'State'}, inplace=**True**)

cases\_df.head()

demo\_df = pd.read\_csv(income\_pop\_path)

demo\_df.head()

2nd output on xls

print(demo\_df.count())

print(len(demo\_df['State'].unique()))

State 51

Land Area (mi2) 51

Population 51

Population Density 51

Per Capita Income 51

Median Household Income 51

dtype: int64

51

all\_df = pd.merge(cases\_df, demo\_df, on='State', how='inner', validate='many\_to\_one')

all\_df.head()

3rd Output

all\_df.to\_csv("Resources/AllByState.csv", index=**False**)